

7805,
79096-7807

Access DB# _____

SEARCH REQUEST FORM

Scientific and Technical Information Center
Litigation search.

Requester's Full Name: Sunil Singh Examiner #: 74483 Date: 10/21/02
Art Unit: 3673 Phone Number 308-4024 Serial Number: 09/946,610; 09/962,99
Mail Box and Bldg/Room Location: CPK 5 2714 Results Format Preferred (circle): PAPER DISK E-I

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Molded plastic ramp; Vertical stab tendon bottom connector
Inventors (please provide full names): method for securing and releasing the same; will be
and method of using the same.

Michael Mapp; Joseph W. Pallini Jr., Jerry K. Rhodes, Jason R. Jackson
Roger K. Stone.
Earliest Priority Filing Date: 2/14/1997; 9/27/1996; 09/09/1997.

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with appropriate serial number.*

09/946610 5946756
5984585
09/962991
09/910486 5924490

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-----PATENTS GROUP FILES-----

ALL 4 UTIL, DESIGN, PLANT, SIR,
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ALLPAT 4 Comb. ALL & INTPAT

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DESIGN 4 Full Text Patents from 1843
PLANT 4 Full Text Patents from 1931
USPGP 4 Pre-Grant Pubs. from 3/2001
PATNEW 4 U.S. Grants Early Update

JNLS News

* Selected coverage 1/15/71 to 12/3/74

LEVEL 1 - 1 OF 1 PATENT

UNITED STATES PATENT & TRADEMARK OFFICE GRANTED PATENT

5924490

<=1> GET 1st DRAWING SHEET OF 4

July 20, 1999

Well treatment tool and method of using the same

REISSUE: July 20, 2001 - Reissue Application filed Ex. Gp.: 3672; Re. S.N.
09/910,986 June 4, 2002

APPL-NO: 08925174 (08)

FILED-DATE: September 9, 1997

GRANTED-DATE: July 20, 1999

CORE TERMS: fluid, string, tube, sucker rod, valve, paraffin, solvent, oil,
pump, installed ...

5924490 OR 5,924,490

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5924490 OR 5,924,490

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5924490 OR 5,924,490.

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SS 3: Results 1

Search statement 4

Query/Command : PRT SS 3 MAX 1 LEGALALL

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Patent Number :

US5924490 A 19990720 [US5924490]

Title :

(A) Well treatment tool and method of using the same

Inventor(s) :

(A) STONE ROGER K (US)

Application Nbr :

US92517497 19970909 [1997US-0925174]

Priority Details :

US92517497 19970909 [1997US-0925174]

Intl Patent Class :

(A) E21B-021/00 E21B-043/00

EPO ECLA Class :

E21B-034/06

E21B-037/00

E21B-043/12B9C

US Patent Class :

ORIGINAL (O) : 166312000; CROSS-REFERENCE (X) : 166222000 166304000
166310000 166311000

Document Type :

Basic

Citations :

US2300348; US2562458; US4011906; US4224993; US4267888; US4279306;
US4440229; US4681167; US4716960; US4790375; US4846279; US4995462;
US5056599; US5246074; US5282263; US5595243; WO92-06274

Publication Stage :

(A) United States patent

Abstract :

A well treatment tool is installed along the sucker rod string of a well, within the surrounding production tube string. The tool provides for the distribution of a treatment fluid (solvent, etc.) within the fluid being pumped or flowing from the well. The tool receives treatment fluid through the hollow sucker rod string, and distributes

the fluid through a valve which is set at a predetermined pressure. When the treatment fluid pumped down the sucker rod string from the surface exceeds the predetermined opening pressure of the valve, the treatment fluid is distributed into the production tube string through one or more passages in the tool. The present tool may be used simultaneously with well production, with fluid (oil, etc.) rising up the production tube string, carrying the treatment fluid therewith. The treatment fluid is thus distributed throughout the local fluid processing system, including pipelines from the well, any initial treatment operations, and any storage tanks. The present tool is particularly well adapted for the treatment of paraffin buildups within the production tube string of an oil well, but may be used to provide various treatments to other types of wells. The present tool may be used with both pumping wells and flowing (e. g., artesian) wells.

1 / 1 LGST - ©LEGSTAT

Patent Number :

US 5924490, [US5924490]

Application Details :

US 925174/97 19970909 [1997US-0925174]

Document Type :

US-P

Action Taken :

19970909 US/AE-A
APPLICATION DATA (PATENT)
US 925174/97 19970909 [1997US-0925174]

19990720 US/A
PATENT

20020604 US/RF
REISSUE APPLICATION FILED
20010720

Update Code :

2002-24

1 / 1 CRXX - ©CLAIMS/RRX

Patent Number :

5,924,490 A 19990720 [US5924490]

Patent Assignee :

Stone, Roger K

Actions :

20010720 REISSUE REQUESTED

ISSUE DATE OF O.G.: 20020604

REISSUE REQUEST NUMBER: 09/910986

EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3672

Reissue Patent Number:

1 / 1 PAST - ©Thomson Derwent

Accession Number :

200223-001823

Patent Number :

5924490 A [US5924490]

Official Gazette Date :

2002-06-04

Actions :

REISSUE APPLICATION FILED

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5/39/1

DIALOG(R) File 345:Inpadolam.& Legal Stat
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Basic Patent (No,Kind,Date): US 5924490 A 19990720 <No. of Patents: 001>

Patent Family:

Patent No	Kind	Date	Applic No	Kind	Date
US 5924490	A	19990720	US 925174	A	19970909 (BASIC)

Priority Data (No,Kind,Date):

US 925174 A 19970909

PATENT FAMILY:

UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 5924490 A 19990720

WELL TREATMENT TOOL AND METHOD OF USING THE SAME (English)

Patent Assignee: STONE ROGER K (US)

Author (Inventor): STONE ROGER K (US)

Priority (No,Kind,Date): US 925174 A 19970909

Applic (No,Kind,Date): US 925174 A 19970909

National Class: * 166312000; 166222000; 166304000; 166310000;
166311000

IPC: * E21B-021/00; E21B-043/00

Language of Document: English

UNITED STATES OF AMERICA (US)

Legal Status (No,Type,Date,Code,Text):

US 5924490	P	19970909	US AE	APPLICATION DATA (PATENT)
			(APPL. DATA (PATENT))	
			US 925174 A	19970909
US 5924490	P	19990720	US A	PATENT
US 5924490	P	20020604	US RF	REISSUE APPLICATION FILED
			(REISSUE APPL. FILED)	
			20010720	